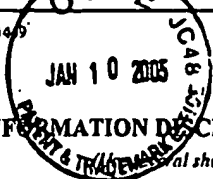


| | | | |
|---|--|--------------------------------------|--------------------------------------|
| FORM PTO-1449 (REV. 7-80)  INFORMATION DISCLOSURE STATEMENT (Additional sheets if necessary) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 500444.04 | APPLICATION NO. 10/648,567 |
| | APPLICANT(S) Troy A. Manning | | |
| | FILING DATE August 25, 2003 | GROUP ART UNIT 2133 | |

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|----------|-----------------|-------|----------|-------------------------------|
| DT | AA | 5,463,337 | 10/31/95 | Leonowich | 327 | 158 | |
| DT | AB | 5,712,883 | 01/27/98 | Miller et al. | 375 | 371 | |
| DT | AC | 5,764,092 | 06/09/98 | Wada et al. | 327 | 271 | |
| 1/20/06 DT | AD | 6,125,157 | 09/26/00 | Donnelly et al. | 375 | 371 | |
| | AE | | | | | | |
| | AF | | | | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| | AI | | | | | | |
| | AJ | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|----|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | AK | | | | | | | |
| | AL | | | | | | | |
| | AM | | | | | | | |
| | AN | | | | | | | |
| | AO | | | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|----|---|
| DT | AP | Park, D. et al., "Fast Acquisition Frequency Synthesizer with the Multiple Phase Detectors", IEEE Pacific Rim Conference on Communications, Computers and Signal Processing, Vol. 2, May 1991. pp. 665-668. |
| | AQ | |

| | |
|-----------------------------|-----------------------------------|
| EXAMINER <i>Davidson</i> | DATE CONSIDERED <i>9/21/05</i> |
|-----------------------------|-----------------------------------|

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449,
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

500444.04

APPLICATION NO.

10/648,567

INFORMATION DISCLOSURE STATEMENT

(See separate sheets if necessary)

APPLICANT(S)

Troy A. Manning

FILING DATE

August 25, 2003

GROUP ART UNIT

2133

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|----------|---------------|-------|----------|-------------------------------|
| DT | AA | 4,979,185 | 12/18/90 | Bryans et al. | 375 | 20 | |
| DT | AB | 5,831,545 | 11/03/98 | Murray et al. | 340 | 825.49 | |
| DT | AC | 6,005,694 | 12/21/99 | Liu | 359 | 110 | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| | AI | | | | | | |
| | AJ | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|----|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | AK | | | | | | | |
| | AL | | | | | | | |
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| | AN | | | | | | | |
| | AO | | | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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| | AP | |
| | AQ | |
| | AR | |

EXAMINER

David M.

DATE CONSIDERED

1/20/06

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).